STATE OF MISSOURI DEPARTMENT OF NATURAL RESOURCES AIR POLLUTION CONTROL PROGRAM 1101 RIVERSIDE DRIVE, P.O. BOX 176 JEFFERSON CITY, MISSOURI 65102-0176

EMISSIONS INVENTORY QUESTIONNAIRE (EIQ) FORM 2.6 ORGANIC LIQUID STORAGE - FLOATING ROOF TANK

FACILITY NAME				FIPS COUNTY NO.		PLANT N	PLANT NO.		YEAR OF DATA	
Please provide all the fo			being used to derive emission	factors for liqui	d storage tanks	with capacities	s greater thar	n 250 gallor	ns. Please include al	
[1] TANK INFORM	IATION									
POINT NO.		TANK ID. NO.		SOURCE CLASSIFICATION CODE (SCC)			5	SEG. NO.		
				BREATHING						
CAPACITY (IN THOUSAND	S OF GALLONS)		TYPE OF CONSTRUCTION	WORKING		PRIMARY SEAL				
ON THE CONTROL	o or orizonto)		THE OF CONCINCOTION			T KIND IKT OLD I	_			
			☐ RIVETED ☐ WE	LDED		LIQUID M	MOUNTED			
DIAMETER (FT)	HEIGHT(FT)		TYPE OF ROOF	TYPE OF ROOF		METALLIC SHOE				
					L		☐ VAPOR MOUNTED			
			L EXTERNAL L INTERNAL							
SEAL FACTOR A	SEAL FACTOR	В	NUMBER OF COLUMNS	EFFECTIVE COLUMN DIAMETER (FT)		SECONDARY SEAL				
						NONE				
01 110 4 0 5 54 0 7 0 0	LENGTHOE	= AAA (FT)	DEG!			RIM MOUNTED				
CLINGAGE FACTOR	LENGTH OF S	EAM (FT)	DECK	AREA OF DECK (SQ FT		SHOE M	SHOE MOUNTED			
						☐ WEATHE	WEATHER MOUNTED			
SHELL CONDITION			TOTAL FITTING LOSS FACTOR (LB-MOLE/YR)			SEAM LOSS FACTOR (LB-MOLE/FT-YR)				
				,			BOLTED DECKS (VALUE = .14)			
						WELDED	WELDED DECKS (VALUE = 0.0)			
						EXTERN	TERNAL FLOATING ROOF TANKS (VALUE = 0.0)			
[2] CHEMICAL IN	FORMATION									
CHEMICAL NAME		CAS NUMBER		THROUGHPUT (1,000 GAL/YR)			VAPOR PRESSURE AT STORAGE TEMP (psia)			
VAPOR MOLECULAR WT		NUMBER OF TURNOVERS		LIQUID DENSITY (LBS/GALLON)		<u> </u>	PRODUCT FA	ACTOR		
						'/	CRUDE OIL (VALUE = 4)			
							☐ ANY OT	HER LIQUID	(VALUE = 1.0)Ω	
				1						
VAPOR PRESSUR	E FUNCTION	[{VAPOR PI	RESSURE} / 14.7] / [1 + ({VAPO	OR PRESSURE	E} / 14.7))^0.5]^2	2	=			
[3] METEOROLOG		TIONS								
AVERAGE WIND SPEED (MPH)		SEAL RELATED WIND EXPONI		NT		AVERAGE AMBIENT TEMPERATURE (F)				
[4] VOC EMISSIO	N CALCULATION	ONS								
CALCULATION	DRMULA					RESULT				
RIM SEAL LOSS		((SEAL FACTOR, A) + (SEAL FACTOR, B) X (AVG WIND SPEED)^ (SEAL RELATED WIND EXPONENT))								
(LBS/YR)	X (DIAME)	X {DIAMETER} X {VAPOR MOLECULAR WT} X {PRODUCT FACTOR} X {VAPOR PRESSURE FUNCTION}								
WITHDRAWAL LOSS (LBS/YR)	(0.943 X ({THROUGHPUT} X 23.81) X {CLINAGE FACTOR} X {LIQUID DENSITY} / {DIAMETER} X [1 + ({NO OF COLUMNS} X {EFFECTIVE COLUMN DIAMETER} / {DIAMETER})]								
DECK FITTING LOS (LBS/YR)	,	{TOTAL DECK FITTING LOSS FACTOR} X {MOLECULAR WT} X {PRODUCT FACTOR} X {VAPOR PRESSURE FUNCTION}								
DECK SEAM LOSS (LBS/YR)		{DIAMETER}^2 X {LENGTH OF SEAM} / {AREA OF DECK} X {SEAM LOSS FACTOR} X {MOLECULAR WT} X {PRODUCT FACTOR} X {VAPOR PRESSURE FUNCTION}								
WORKING LOSS EMISSION FACTOR	{WITHDRA	WAL LOSS	/ {THROUGHPUT}	THROUGHPUT}						
BREATHING LOSS EMISSION FACTOR ({RIM SEAL LOSS} + {DECK FITTING LOSS} + {DECK SEAM LOSS}) / {CAPACITY}										